

Amendments to the Claims:

Claim 1 (original): An electromagnetic shock absorber comprising:

a shock absorber body which makes telescopic motion in response to an input from outside;

a ball screw mechanism which is arranged at the shock absorber body, converts the telescopic motion into rotary motion, and is composed of a ball nut and a screw shaft;

a motor which is provided coaxially with the shock absorber body and generates electromagnetic resistance to oppose against the rotary motion to be input into a rotary shaft of the motor; and

a cylindrical member which covers the shock absorber body and the motor from outside and whose part to cover the motor also serves as a motor frame.

Claim 2 (original): The electromagnetic shock absorber according to claim 1, wherein the shock absorber body has an external cylinder and an internal cylinder to be slidably inserted into the external cylinder; a cylindrical cover having the frame of the motor is coaxially connected with an upper part of the external cylinder; and the external cylinder and the cover constitute the cylindrical member.

Claim 3 (original): The electromagnetic shock absorber according to claim 1, wherein the shock absorber body has an external cylinder and an internal cylinder to be slidably inserted into the external cylinder; an upper part of the external cylinder extends so as to cover the motor and the frame of the motor is formed at an extended part of the external cylinder; and the cylindrical member is constituted by the external cylinder.

Claim 4 (currently amended): The electromagnetic shock absorber according to claim 2 ~~or claim 3~~, wherein the rotary shaft of the motor is rotatably supported at its both ends by a pair of bearings installed at the external cylinder.

Claim 5 (original): The electromagnetic shock absorber according to claim 4, wherein the ball nut of the ball screw mechanism is fixed to an upper part of the internal cylinder and a screw shaft to be spirally engaged with the ball nut is connected with the rotary shaft of the motor; an outer circumference of the internal cylinder is slidably supported by a bush installed at an inner circumference of a lower end of the external cylinder; and a halfway point of the screw shaft is rotatably supported through bearings installed inside the external cylinder.

Claim 6(original): The electromagnetic shock absorber according to claim 5, wherein the screw shaft and the rotary shaft are connected through a planetary gear mechanism which decelerates and transmits a rotation of the screw shaft to the rotary shaft.

Claim 7 (new): The electromagnetic shock absorber according to claim 3, wherein the rotary shaft of the motor is rotatably supported at its both ends by a pair of bearings installed at the external cylinder.